

Convenience Copies of Drawings:

Enclosed, for the convenience of the examiner, please find 20 sheets of 30 drawing figures. These drawings are incorporated by reference in the specification of the parent case from prior cases from which the present case claims priority and are believed suitable for examination purposes.

Please amend the claims as follows:

Please Cancel Claim 1.

Please add the following claims:

49. A portable battery powered utilization device comprising, a rechargeable battery pack, a terminal device adapted to receive said rechargeable battery pack, conductive straps connecting said rechargeable battery pack to said terminal device, a plurality of said conductive straps further connected to a controller, said controller comprising a microprocessor, a battery voltage monitor circuit, a battery current monitor circuit, and a battery temperature monitor circuit, said rechargeable battery pack also having a battery charging controller, wherein said battery charging controller is responsive to control signals from said microprocessor for setting a selected charging current, and said rechargeable battery pack further having a digital communications interface with said terminal device.

50. The system of claim 49, wherein said microprocessor includes a memory for storing the parameters over time measured by said battery voltage monitor circuit and said battery current monitor circuit.

51. The system of claim 49, wherein said microprocessor is capable of initiating a deep discharge cycle of said rechargeable battery pack.

52. The system of claim 49, wherein said microprocessor measures the capacity of said rechargeable battery pack during said deep discharge cycle.

B1 cont 53. The system of claim 49 wherein said microprocessor counts the number of shallow discharge cycles of said rechargeable battery pack.

54. The system of claim 53, wherein said microprocessor is capable of initiating a deep discharge cycle when the number of shallow discharge cycles has exceeded a predetermined threshold.

55. The system of claim 49, wherein said microprocessor measures total current drained from said rechargeable battery pack during use.

56. The system of claim 55, wherein said microprocessor sends a code representing the capacity of said rechargeable battery pack to said terminal device upon receipt of a command from said terminal device.

57. The system of claim 56, wherein said code represents a percentage of the capacity remaining in said rechargeable battery pack.

58. The system of claim 57, wherein said microprocessor generates a minimum capacity alert when the maximum available capacity in said rechargeable battery pack decreases to a pre-determined minimum level.

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cont.

59. A portable battery powered utilization device comprising, a rechargeable battery pack, a terminal device adapted to receive said rechargeable battery pack, conductive straps connecting said rechargeable battery pack to said terminal device, a plurality of said conductive straps further connected to a controller, said controller comprising a microprocessor, a battery voltage monitor circuit, a battery current monitor circuit, and a battery temperature monitor circuit, said rechargeable battery pack also having a battery charging controller, wherein said battery charging controller is responsive to control signals from said microprocessor for setting a selected charging current, and said rechargeable battery pack further having a digital communications interface with said terminal device, and wherein said microprocessor includes a memory for storing the parameters over time measured by said battery voltage monitor circuit and said battery current monitor circuit, said microprocessor measures total current drained from said rechargeable battery

pack during use, and said microprocessor generates a code representative of the capacity remaining in said rechargeable battery pack which is transmitted to said terminal device.

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60. The system of claim 59, wherein said code is representative of a percentage of the capacity remaining in said rechargeable battery pack.

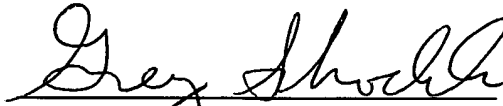
This amendment replaces the claims in the Rule 60 application with the claims upon which the applicant requests examination.

The examiner is invited to telephone the applicants' undersigned attorney at (312) 707-8889 if any unresolved matters remain.

Please charge any additional fees and credit any overpayment incurred in connection with this Amendment And Request For Reconsideration to Deposit Account No. 13-0017.

Respectfully submitted,

Dated: December 15, 1995


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